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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,619	09/15/2003	Hyun Jin Kim	0EKM-104792	9762	
30764 7590 03/06/2008 SHEPPARD, MULLIN, RICHTER & HAMPTON LLP 333 SOUTH HOPE STREET			EXAMINER		
			TRIMIEW, RAEANN		
48TH FLOOR LOS ANGELES, CA 90071-1448			ART UNIT	PAPER NUMBER	
			3711		
			MAIL DATE	DELIVERY MODE	
			03/06/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/662,619	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Raeann Trimiew	3711				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>04 De</u>	ecember 2007.					
	action is non-final.					
3) Since this application is in condition for allowan		secution as to the	merits is			
closed in accordance with the practice under <i>E</i>						
Disposition of Claims						
4)⊠ Claim(s) <i>1-41,48,50-53,55-57,63 and 64</i> is/are	pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-41,48,50-53,55-57,63 and 64</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents	s have been received					
2. Certified copies of the priority documents		on No				
		<u></u>	Stage			
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmont/o						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date	6) [] Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22, 24-38, 40, 41, 48, 51, 53, 56, 57, 63 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohama (2001/0031669). Regarding claims 1 and 41, Ohama discloses a golf ball core composition comprising 1,4-polybutadiene, peroxide (crosslinking agent), pentachlorothiophenol (peptizer) and 2mercaptobenzothiazole (accelerator). Ohama broadly disclose the use of pentachlorothiophenols but does not disclose specific types such as metal salts or nonmetal salts. However, for purposes of the instant invention the metal salts and nonmetal salts appear to be equivalents. Regarding claims 2-5, pentachlorothiophenol (peptizer) is present in the amount from 0.2 to 3.0 parts by weight. Regarding claims 6-9, 2-mercaptobenzothiazole (accelerator) is present in the amounts from 0.2 to 3.0 parts by weight. Regarding claims 10-12, peroxide (crosslinking agent) is present in the amount from 0.3 to 2 parts by weight. Regarding claim 13, the core composition is made from 1,4-polybutadiene. Regarding claims 14-17, the core composition includes filler such as zinc oxide and barium sulfate in the amounts from 5 to 30 parts by weight. Regarding claims 18 and 19, the core composition includes metal salts unsaturated

Page 3

Art Unit: 3711

carboxylic acid in the amount from 15 to 30 parts by weight. Regarding claim 20, the golf ball includes a core and cover, wherein the core is made from the composition (see above). Regarding claim 21, the core may include multiple layers, i.e. intermediate layer. Regarding claim 22, the state of the materials during manufacturing does not appear to affect the final product since the composition results a solid. Regarding claim 24, the golf ball includes a core, intermediate layer, and cover, wherein the core is made from the composition. Regarding claims 25-28, Ohama discloses a golf ball core composition comprising 1,4-polybutadiene, peroxide (crosslinking agent), pentachlorothiophenol (peptizer), and 2-mercaptobenzothiazole (accelerator). Peroxide (crosslinking agent) is present in the amount from 0.3 to 2 parts by weight. Pentachlorothiophenol (peptizer) and 2-mercaptobenzothiazole (accelerator) are present in combination from 0.2 to 3.0 parts by weight. Ohama broadly disclose the use of pentachlorothiophenols but does not disclose specific types such as metal salts or nonmetal salts. However, for purposes of the instant invention the metal salts and nonmetal salts appear to be equivalents. Regarding claim 29, the core composition is made from 1,4-polybutadiene. Regarding claims 30-33, the core composition includes filler such as zinc oxide and barium sulfate in the amounts from 5 to 30 parts by weight. Regarding claims 34 and 35, the core composition includes metal salts unsaturated carboxylic acid in the amount from 15 to 30 parts by weight. Regarding claim 36, the golf ball includes a core and cover, wherein the core is made from the composition (see above). Regarding claim 37, the core may include multiple layers, i.e., intermediate layer. Regarding claim 38, the state of the materials during manufacturing does not

appear to affect the final product since the composition results a solid. Regarding claim 40, the golf ball includes a core, intermediate layer, and cover, wherein the core is made from the composition. Regarding claims 48 and 53, the core composition includes metal salts unsaturated carboxylic acid. Claims 50 and 55, pentachlorothiophenol (peptizer) is present in the amount from 0.2 to 3.0 parts by weight. Regarding claim 51 and 56, the composition includes dicumyl peroxide. Claims 52 and 57, the crosslinking agent may be 2, 5-dimethyl-2,5-di-(t-butylperoxy)hexyne-3. Claims 63 and 64, the cross linking agent may be 1,1-bis(t-butylperoxy)-3,3,5 tri-methylcyclohexane. One of ordinary skill in the art would substitute the non-metal salts for the metal salts since both appear to have the same function.

Claims 23 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohama (2001/0031669) in view of Sullivan (2001/0000506). Ohama discloses the invention but does not disclose a wound layer. Sullivan teaches a golf ball comprising a solid or wound layer over the core. One of ordinary skill in the art would include wound layer for lower manufacturing costs.

Response to Arguments

The arguments and declaration filed 12-4-07 have been considered but are not persuasive. Applicant has not provided examples showing the difference between using the metal salts versus the nonmetal salts. As shown in Ohama, metal salts and non metal salts of thiopenols are broadly disclosed. Ohama discloses thiophenols are used in the composition but does not distinguish between the two. Applicant also

Art Unit: 3711

discloses the two are interchangeable in the specification as originally filed. The Examiner is requesting applicant to provide scientific data showing the difference(s) between the golf balls comprising the metal salts versus the golf balls comprising the non-metal salts, i.e. examples.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raeann Trimiew whose telephone number is 571-272-4409. The examiner can normally be reached on Mon-Fri 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eugene Kim can be reached on 571-272-4463. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/662,619 Page 6

Art Unit: 3711

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Raeann Trimiew/ Primary Examiner Art Unit 3711

February 20, 2008